

CD3e Monoclonal Antibody (145-2C11), APC-eFluor 780, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Published Species | Mouse, Human |
| Host/Isotope | Armenian hamster / IgG |
| Recommended Isotype Control | Armenian Hamster IgG Isotype Control (eBio299Arm), APC-eFluor 780, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 145-2C11 |
| Conjugate | APC-eFluor® 780 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage Conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_11149861 |

| Applications | Tested Dilution | Publications |
|---|-----------------|-----------------|
| Flow Cytometry (Flow) | 1 µg/test | 59 Publications |
| Functional Assay (FN) | - | 1 Publication |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 2 Publications |

Product Specific Information

Description: The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

Applications Reported: This 145-2C11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 145-2C11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of

detecting this fluorochrome.

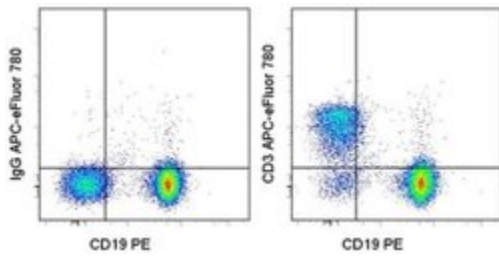
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD3e Monoclonal Antibody (145-2C11), APC-eFluor 780, eBioscience™



CD3e Antibody (47-0031-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD19 PE (Product # 12-0193-82) and 0.5 μ g of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (Product # 47-4888-80) (left) or 0.5 μ g of Anti-Mouse CD3e APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Flow Cytometry (59)

Frontiers in immunology

Tp12 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.

"Published figure using CD3e monoclonal antibody (Product # 47-0031-82) in Flow Cytometry"

Authors: Xu J,Pei S,Wang Y,Liu J,Qian Y,Huang M,Zhang Y,Xiao Y

Species
Not Applicable

Dilution
Not Cited

Year
2020

Nature communications

Integrin CD11b activation drives anti-tumor innate immunity.

"47-0031 was used in Flow cytometry/Cell sorting to identify CD11b as a negative regulator of immune suppression and a target for cancer immune therapy."

Authors: Schmid MC,Khan SQ,Kaneda MM,Pathria P,Shepard R,Louis TL,Anand S,Woo G,Leem C,Faridi MH, Geraghty T,Rajagopalan A,Gupta S,Ahmed M,Vazquez-Padron RI,Cheresh DA,Gupta V,Varner JA

Species
Mouse

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Immunohistochemistry (Frozen) (2)

International journal of cancer

HSP70 vaccine in combination with gene therapy with plasmid DNA encoding sPD-1 overcomes immune resistance and suppresses the progression of pulmonary metastatic melanoma.

Authors: Geng H,Zhang GM,Xiao H,Yuan Y,Li D,Zhang H,Qiu H,He YF,Feng ZH

Species
Not Applicable

Dilution
Not Cited

Year
2006

Investigative ophthalmology and visual science

CCR5-deficient mice develop experimental autoimmune uveoretinitis in the context of a deviant effector response.

Authors: Takeuchi A,Usui Y,Takeuchi M,Hattori T,Kezuka T,Suzuki J,Okunuki Y,Iwasaki T,Haino M,Matsushima K,Usui M

Species
Not Applicable

Dilution
Not Cited

Year
2005

More applications with references on thermofisher.com

FN (1)

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